Patent

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:

ROSENFLANZ, ANATOLY Z.

Patent No.:

7384438

Application No.:

09/618876

Dated:

June 10, 2008

Confirmation No.

1595

Title:

FUSED A1203-Y203-ZRO2 EUTECTIC ABRASIVE ARTICLES,

ABRASIVE ARTICLES, AND METHODS OF MAKING AND

**USING THE SAME** 

## REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1.322 AND 1.323

Commissioner for Patents
Office of Publication
Attn: Certificate of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR § 1.8(a)]	
I hereby certify that this correspondence is being:	
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Dear Sir:

It is respectfully requested that a Certificate of Correction be issued in connection with the above-identified patent. The required text is submitted on the attached form.

The errors are attributable to both the Applicants and the Patent and Trademark Office.

#### Fees.

$\boxtimes$	Any required fee will be made at the time of submission via EFS Web. In the event fees are
	not or cannot be paid at the time of EFS-Web submission, please charge any fees under
	37 CFR § 1.20(a) which may be required to Deposit Account No. 13-3723.
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	Deposit Account No. 13-3723.

- Please charge any additional fees associated with the prosecution of this application to Deposit Account No. 13-3723. This authorization includes the fee for any necessary extension of time under 37 CFR § 1.136(a). To the extent any such extension should become necessary, it is hereby requested.
- Please credit any overpayment to the same deposit account.

Respectfully submitted,

Scott A. Baum, Reg. No.: 51,237

Telephone No.: 651-733-1534

Office of Intellectual Property Counsel 3M Innovative Properties Company Facsimile No.: 651-736-3833

# **CERTIFICATE OF CORRECTION**

PATENT NO.:

7384438

DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 1

Line 1, delete " $AL_2O_3$ - $Y_2O_3$ - $ZRO_2$ " and insert -  $Al_2O_3$ - $Y_2O_3$ - $ZrO_2$  - -, therefor. Line 41, delete "al.))(also" and insert - - al.)) (also - -, therefor.

#### Column 2

Line 9, delete "(Larmnie)," and insert - - (Larmie), - -, therefor.

Line 10, delete "(Larmnie)," and insert - - (Larmie), - -, therefor.

Line 44, delete "stones)." and insert - - stones. - -, therefor.

Line 55, delete "4,898,587." and insert - - 4,898,587 - -, therefor.

#### Column 3

Line 13, delete " $Al_2O_3$ ,  $Y_2O_3$ ," and insert -  $Al_2O_3$ ,  $Y_2O_3$ , - -, therefor.

Line 15, delete " $Al_2O_3$ ,  $Y_2O_3$ )," and insert --  $Al_2O_3$ ,  $Y_2O_3$ ), --, therefor.

Line 16, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

Line 18, delete " $Al_2O_3$ .  $Y_2O_3$ ." and insert - -  $Al_2O_3$ :  $Y_2O_3$ . - -, therefor.

Line 20, delete " $Al_2O_3$ .  $Y_2O_3$ ," and insert -  $Al_2O_3 \cdot Y_2O_3$ , --, therefor.

Line 21, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>" and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub> - -, therefor.

Line 28, delete " $Al_2O_3$ ,  $Y_2O_3$ " and insert -  $Al_2O_3$ ,  $Y_2O_3$  - -, therefor.

Line 34, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert - -  $Al_2O_3$ .  $Y_2O_3$  - -, therefor.

Line 51, delete "Al<sub>2</sub>O<sub>3</sub>.metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 56, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert - -  $Al_2O_3$ .  $Y_2O_3$ " - -, therefor.

Line 58, delete " $Y_3Al_{5O12}$ " and insert - -  $Y_3Al_5O_{12}$ " - -, therefor.

Line 59, delete "Al<sub>2</sub>O<sub>3</sub> rare" and insert - - Al<sub>2</sub>O<sub>3</sub> rare - -, therefor.

Line 62, delete "Dy<sub>3</sub>Al<sub>5O12</sub>" and insert - - Dy<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> - -, therefor.

Line 64, delete "Dy<sub>2O3</sub>," and insert - - Dy<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 64, delete "Ho<sub>2</sub>O<sub>3</sub>," and insert - - HO<sub>2</sub>O<sub>3</sub>, - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 7384438

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# CERTIFICATE OF CORRECTION

Page 2 of 8

PATENT NO .:

7384438

DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 5

Line 45, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 46, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert -- Al<sub>2</sub>O<sub>3</sub> metal --, therefor.

Line 49, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 50, delete "Al<sub>2</sub>O<sub>3</sub>.metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 52, delete "Al<sub>2</sub>O<sub>3</sub>, metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 53, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert -- Al<sub>2</sub>O<sub>3</sub> metal --, therefor.

Line 56, before "oxide" delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 56, after "complex" delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 58, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 59, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 65, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

#### Column 6

Line 1, before "oxide" delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 1, after "complex" delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 4, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 5, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 7, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 9, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 11, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 13, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 15, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 17, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 44, delete " $Al_2O_3$ ,  $Y_2O_3$ ," and insert -  $Al_2O_3$ ,  $Y_2O_3$ , - -, therefor.

Line 47, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert -  $Al_2O_3$ .  $Y_2O_3$  --, therefor.

Line 50, delete " $Al_2O_3$ .  $Y_2O_3$ ." and insert -  $Al_2O_3$ .  $Y_2O_3$ . - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO., 7384438

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# CERTIFICATE OF CORRECTION

PATENT NO .:

7384438

DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 7

Line 7, before "oxide" delete " $Al_2O_3$  metal" and insert - -  $Al_2O_3$  metal - -, therefor. Line 7, after "complex" delete " $Y_2O_3$  metal" and insert - -  $Y_2O_3$  metal - -, therefor.

#### Column 8

Line 17, delete " $\Lambda l_2 O_3$ .  $Y_2 O_3$ " and insert - -  $\Lambda l_2 O_3$   $Y_2 O_3$  - -, therefor.

Line 18, after "ZrO<sub>2</sub>" insert - - phase, the - -.

Line 19, delete " $Al_2O_3$ ,  $Y_2O_3$ ," and insert - -  $Al_2O_3$ ,  $Y_2O_3$ , - -, therefor.

Line 22, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert - Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 58, delete "Al<sub>2</sub>O<sub>3</sub>,metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

## Column 9

Line 2, delete "Y<sub>2</sub>O<sub>3</sub>.metal" and insert - - Y<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 10, delete "haffnia." and insert - - hafnia. - -, therefor.

Line 63, delete "other than" and insert - - other than - -, therefor.

#### Column 10

Line 45, before "No. 3,891,408" delete "Pat," and insert - - Pat. - -, therefor.

Line 45, after "U.S." delete "Pat," and insert - - Pat. - -, therefor.

Line 46, before "No. 4,070,796" delete "Pat," and insert - - Pat. - -, therefor.

Line 46, after "U.S." delete "Pat," and insert - - Pat. --, therefor.

Line 47, after "U.S." delete "Pat," and insert - - Pat. - -, therefor.

Line 48, before "No. 4,457,767" delete "Pat," and insert - - Pat. - -, therefor.

Line 48, after "U.S." delete "Pat," and insert - - Pat. --, therefor.

Line 53, after "include" delete "are" and insert -- arc --, therefor.

Line 53, after "furnace," delete "are" and insert - - arc - -, therefor.

Line 54, delete "are" and insert - - arc - -, therefor.

Line 56, delete "are", "and insert - - are", - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 7384438

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# CERTIFICATE OF CORRECTION

Page 4 of 8

PATENT NO .:

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DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 11

Line 54, delete "are" and insert - - arc - -, therefor.

## Column 12

Line 39, delete "Pat," and insert - - Pat. --, therefor.

Line 40, delete "Pat," and insert - - Pat. - -, therefor.

Line 41, before "No. 4,194,887" delete "Pat," and insert - - Pat.- -, therefor.

Line 41, after "(Ucltz et al.), U.S." delete "Pat," and insert - - Pat. - -, therefor.

Line 42, delete "Pat," and insert - - Pat. --, therefor.

Line 43, delete "Pat," and insert - - Pat. - -, therefor.

#### Column 14

Line 3, delete "JIs220," and insert - - JIS220, - -, therefor.

#### Column 17

Line 48, delete "lonta" and insert - - Ionta - -, therefor.

Line 57, delete "c," and insert - -  $\alpha, \beta$  - -, therefor.

#### Column 18

Line 33, delete "1 100°" and insert - - 1100° - -, therefor:

#### Column 19

Line 12, delete "tetrachloronaphtalene," and insert -- tetrachloronaphthalene, --, therefor.

Line 16, delete "tetrafluoraboate," and insert - - tetrafluoraborate, - -, therefor.

Line 67, delete "(Larmnie)," and insert - - (Larmie), - -, therefor.

MAILING ADDRESS OF SENDER:

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DATED:

PATENT NO .:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

## Column 20

Line 37, delete "example,." and insert - - example, - -, therefor.

## Column 22

Line 22, delete "are" and insert - - arc - -, therefor.

Line 28, delete "are" and insert - - arc - -, therefor.

Line 29, delete "are" and insert - - arc - -, therefor.

Line 33, delete "are" and insert - - arc - -, therefor.

Line 47, delete "EL" and insert - - IL - -, therefor.

#### Column 24

Line 49, delete "vol" and insert - - vol. - -, therefor.

#### Column 27

Line 24, delete "1 micrometer." and insert - - 2 micrometers. - -, therefor

Line 60, delete "Was" and insert - - was - -, therefor.

#### Column 31

Line 51, delete "icolonies" and insert -- colonies --, therefor.

Line 56, delete " $\alpha c$ -" and insert - -  $\alpha$ - -, therefor.

#### Column 32

Line 28, in Claim 1, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 29, in Claim 1, delete " $Al_2O_3$ .  $Y_2O_3$ ." and insert - -  $Al_2O_3$   $Y_2O_3$ . - -, therefor.

Line 30, in Claim 2, after "1" insert - - wherein - -.

Line 58, in Claim 9, delete "Al<sub>2</sub>O<sub>3</sub> rare" and insert -- Al<sub>2</sub>O<sub>3</sub> rare --, therefor.

Line 63, in Claim 10, delete "Al<sub>2</sub>O<sub>3</sub> metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 7384438

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Page 5 of 8

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PATENT NO.:

7384438

DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### Column 33

Line 2, in Claim 12, delete "ar" and insert - - at - -, therefor.

Line 3, in Claim 12, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>or" and insert -- Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub> or --, therefor.

Line 4, in Claim 12, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert - -  $Al_2O_3$ .  $Y_2O_3$  - -, therefor.

Line 17, in Claim 13, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>" and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub> - -, therefor.

Line 18, in Claim 13, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 27, in Claim 13, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert -  $Al_2O_3$ .  $Y_2O_3$  - -, therefor.

Line 28, in Claim 13, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>" and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub> - -, therefor.

Line 37, in Claim 14, delete "cutectic" and insert - - eutectic - -, therefor.

Line 40, in Claim 14, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 41, in Claim 14, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 51, In Claim 14, delete " $Al_2O_3$  Y $_2O_3$ " and insert - -  $Al_2O_3$  Y $_2O_3$  - -, therefor.

Line 52, in Claim 14, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>" and insert - - Al<sub>2</sub>O<sub>3</sub> · Y<sub>2</sub>O<sub>3</sub> - -, therefor.

Line 65, in Claim 15, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 66, in Claim 15, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>," and insert - Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>, --, therefor.

Line 67, in Claim 15, after "fused" insert --, --.

#### Column 34

Line 8, in Claim 15, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert -  $Al_2O_3$   $Y_2O_3$  - -, therefor. Line 9, in Claim 15, delete " $Al_2O_3$ .  $Y_2O_3$ " and insert -  $Al_2O_3$   $Y_2O_3$  - -, therefor. Line 18, in Claim 17, delete " $Al_2O_3$ .  $Y_2O_3$ ." and insert -  $Al_2O_3$   $Y_2O_3$ . - -, therefor. Line 36, in Claim 21, delete " $Al_2O_3$ . metal" and insert -  $Al_2O_3$  metal - -, therefor. Line 43, in Claim 23, delete " $Al_2O_3$ .  $Y_2O_3$ ," and insert -  $Al_2O_3$   $Y_2O_3$ , - -, therefor. Line 44, in Claim 23, delete " $Al_2O_3$ .  $Y_2O_3$ ." and insert -  $Al_2O_3$   $Y_2O_3$ . - -, therefor. Line 62, in Claim 27, delete " $Al_2O_3$ . metal" and insert -  $Al_2O_3$  metal - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 7384438

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# **CERTIFICATE OF CORRECTION**

Page 7 of 8

PATENT NO .:

7384438

DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 35

Line 8, in Claim 29, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>" and insert - Al<sub>2</sub>O<sub>3</sub> · Y<sub>2</sub>O<sub>3</sub> - -, therefor. Line 25, in Claim 33, after "comprise" delete "comprises".

Line 28, in Claim 33, delete "Al<sub>2</sub>O<sub>3</sub>metal" and insert - - Al<sub>2</sub>O<sub>3</sub> metal - -, therefor.

Line 42, in Claim 37, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 43, in Claim 37, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 67, in Claim 41, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

## Column 36

Line 3, in Claim 42, delete " $Al_2O_3$ . $Y_2O_3$ ," and insert -  $Al_2O_3$ . $Y_2O_3$ , - -, therefor. Line 4, in Claim 42, delete " $Al_2O_3$ . $Y_2O_3$ ." and insert -  $Al_2O_3$ . $Y_2O_3$ . - -, therefor. Line 9, in Claim 43, delete " $Al_2O_3$ . $Y_2O_3$ " and insert -  $Al_2O_3$ . $Y_2O_3$  - -, therefor. Line 31, in Claim 44, delete " $Al_2O_3$ . $Y_2O_3$ ," and insert -  $Al_2O_3$ . $Y_2O_3$ , - -, therefor. Line 32, in Claim 44, delete " $Al_2O_3$ . $Y_2O_3$ ." and insert -  $Al_2O_3$ . $Y_2O_3$ . - -, therefor. Line 43, in Claim 48, delete " $Al_2O_3$ . $Y_2O_3$ ." and insert -  $Al_2O_3$ . $Y_2O_3$ . - -, therefor. Line 46, in Claim 49, delete " $Al_2O_3$ . $Y_2O_3$ ," and insert -  $Al_2O_3$ . $Y_2O_3$ , - -, therefor. Line 47, in Claim 49, delete " $Al_2O_3$ . $Y_2O_3$ ." and insert -  $Al_2O_3$ . $Y_2O_3$ . - -, therefor. Line 53, in Claim 50, delete " $Al_2O_3$ . $Y_2O_3$ " and insert -  $Al_2O_3$ . $Y_2O_3$  - -, therefor.

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PATENT NO. 7384438

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# CERTIFICATE OF CORRECTION

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PATENT NO .:

7384438

DATED:

June 10, 2008

FIRST NAMED INVENTOR:

ROSENFLANZ, ANATOLY Z.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 37

Line 1, in Claim 52, delete " $Al_2O_3$ .  $Y_2O_3$ ," and insert -  $Al_2O_3$   $Y_2O_3$ , - -, therefor.

Line 2, in Claim 52, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

Line 14, in Claim 56, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

Line 17, in Claim 57, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert - Al<sub>2</sub>O<sub>3</sub>: Y<sub>2</sub>O<sub>3</sub>, ---, therefor.

Line 18, n Claim 57, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert -- Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>, --, therefor.

Line 26, in Claim 58, delete " $Al_2O_3$ :  $Y_2O_3$ " and insert - -  $Al_2O_3$ :  $Y_2O_3$  - -, therefor.

Line 37, in Claim 60, delete "reselective" and insert - respective - -, therefor.

Line 41, in Claim 60, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert --  $\Lambda$ l<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>, --, therefor.

Line 42, in Claim 60, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>;" and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>; - -, therefor.

Line 45, in Claim 60, delete "fired" and insert - - fused - -, therefor.

Line 51, in Claim 61, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

Line 54, in Claim 62, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>," and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>, - -, therefor.

Line 55, in Claim 62, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

Line 64, in Claim 63, delete "cutectic" and insert - - eutectic - -, therefor.

Line 65, in Claim 63, delete "Al<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>" and insert - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub> - -, therefor.

#### Column 38

Line 6, in Claim 64, before "is eutectic" insert - - further comprises crystalline Al<sub>2</sub>O<sub>3</sub> such that said eutectic - -.

Line 7, in Claim 64, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert - - Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. - -, therefor.

Line 10, in Claim 65, delete "Al<sub>2</sub>O<sub>3</sub>,  $Y_2$ O<sub>3</sub>," and insert - - Al<sub>2</sub>O<sub>3</sub>,  $Y_2$ O<sub>3</sub>, - -, therefor.

Line 11, in Claim 65, delete "Al<sub>2</sub>O<sub>3</sub>. Y<sub>2</sub>O<sub>3</sub>." and insert -- Al<sub>2</sub>O<sub>3</sub> Y<sub>2</sub>O<sub>3</sub>. --, therefor.

Line 28, in Claim 68, delete "JS8000," and insert - - JIS8000, - -, therefor.

Line 43, in Claim 71, delete "JIS100," and insert - - JIS1000, ---, therefor.

Line 64, in Claim 80, delete "steel,tool steel," and insert - - steel tool, steel, - -, therefor.

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